

TITLE: Synthesis of crystalline liquid compounds. III. n-Alkyl and n-alkoxy derivatives of 2,5-diphenylpyrimidine

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AB 2,5-Bis(p-RC6H4-substituted) pyrimidines (I, where R = H, C1-6 n-alkyl, or C1-6 n-alkoxy), were prepared by condensing p-RC6H4CH(CO2Et)2 with p-RC6H4C(:NH)NH2, treating with POC13 and reductive dechlorination. I (R = Me) showed only a nematic phase, I (R = Et or Pr) showed a nematic and a smectic phase, I (R = C4-6 n-alkyl) showed only the smectic A-phase. Similarly I (R = MeO or EtO) were nematic, I (R = C3-5 n-alkoxy) showed a smectic structure which was assigned to the smectic A and smectic C phases. Similarly, p-ROC6H4C(:NH)NH2.HCl (where R = C7-12 n-alkyl) showed crystalline liquid behavior.

IT 29134-22-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 29134-22-3 CAPLUS

CN 4(1H)-Pyrimidinone, 2,5-diphenyl- (9CI) (CA INDEX NAME)

